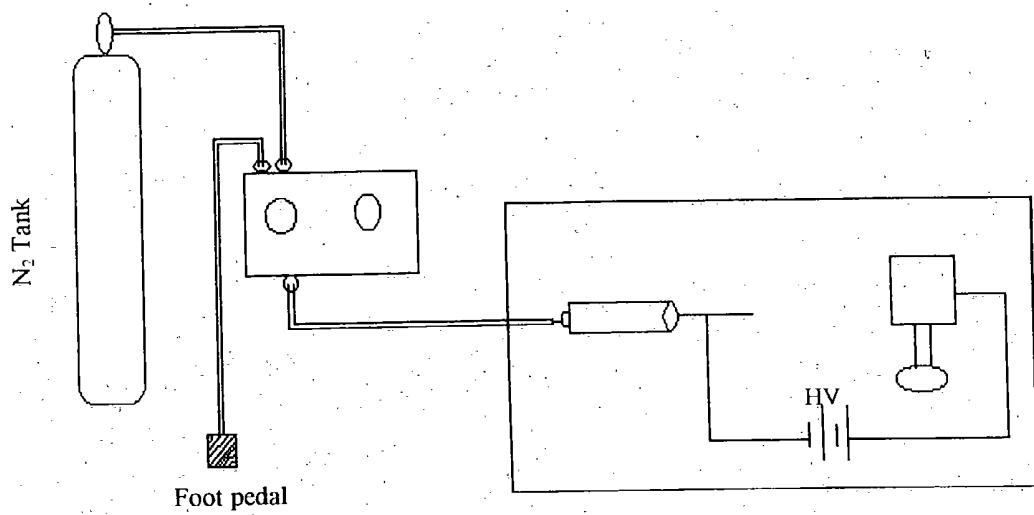


Title: Electrospun Mesoporous Molecular Sieve Fibers

Inventor(s): Kenneth J. Balkus, Jr. et al.

Docket No.: 46847-00021USPT

**Fluid dispensing system**



Electrospinning set up in a plexi glass box

FIG. 1

Title: Electrospun Mesoporous Molecular Sieve Fibers  
Inventor(s): Kenneth J. Balkus, Jr. et al.  
Docket No.: 46847-00021USPT

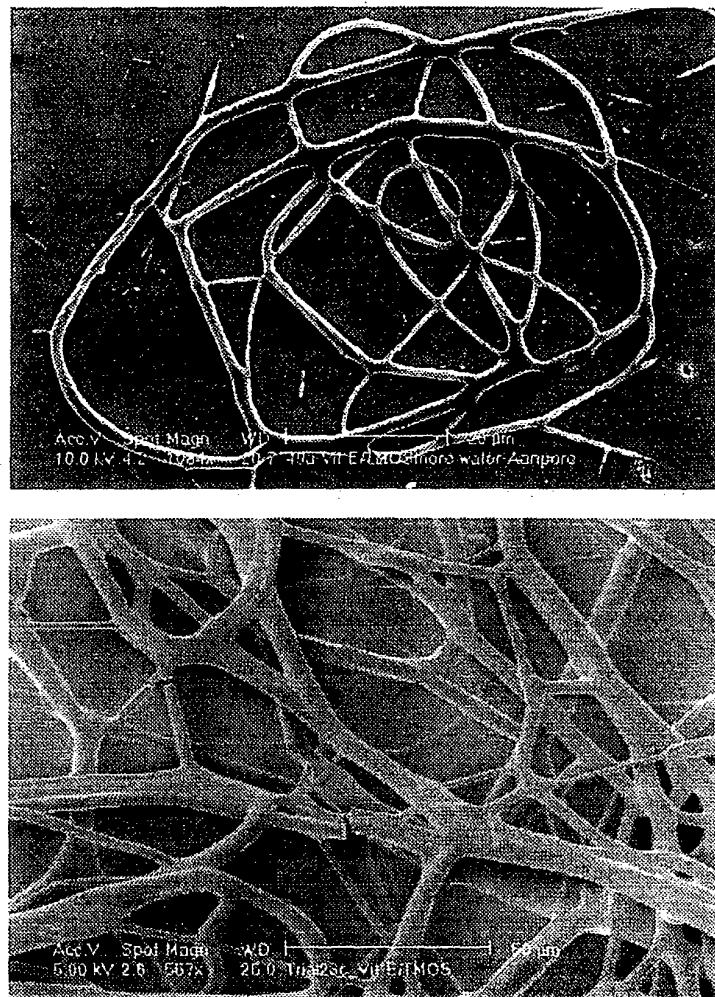


FIG. 2

Title: Electrospun Mesoporous Molecular Sieve Fibers  
Inventor(s): Kenneth J. Balkus, Jr. et al.  
Docket No.: 46847-00021USPT

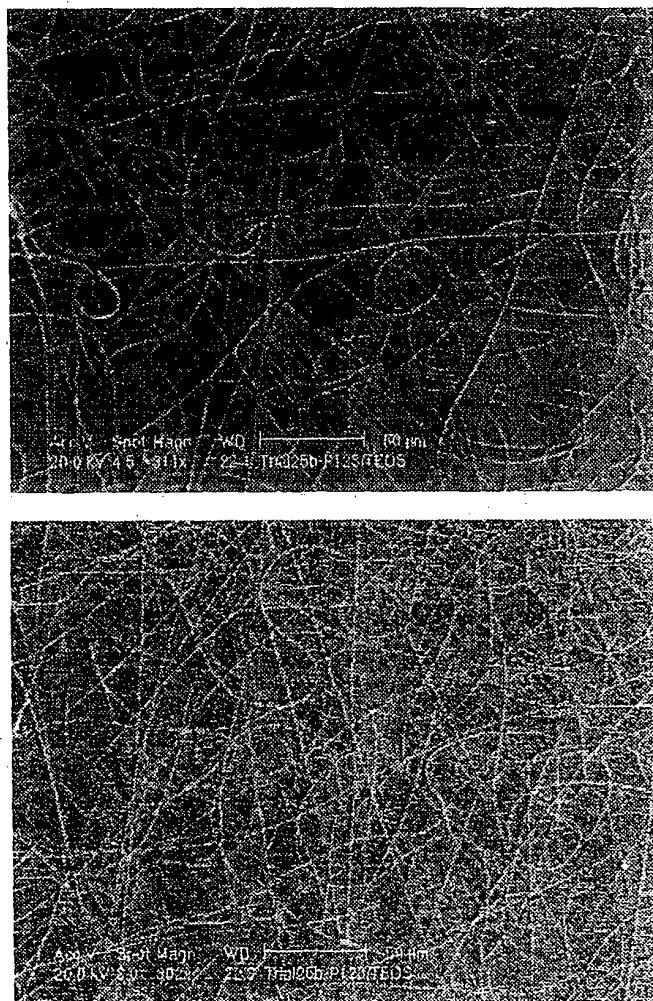


FIG. 3

Title: Electrospun Mesoporous Molecular Sieve Fibers  
Inventor(s): Kenneth J. Balkus, Jr. et al.  
Docket No.: 46847-00021USPT

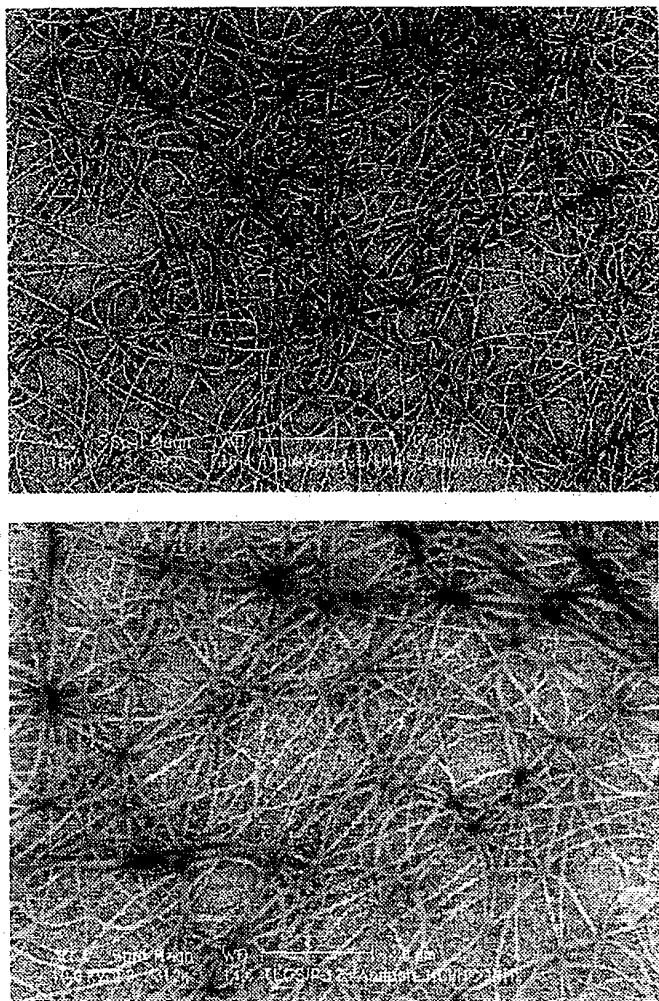


FIG. 4

Title: Electrospun Mesoporous Molecular Sieve Fibers  
Inventor(s): Kenneth J. Balkus, Jr. et al.  
Docket No.: 46847-00021USPT

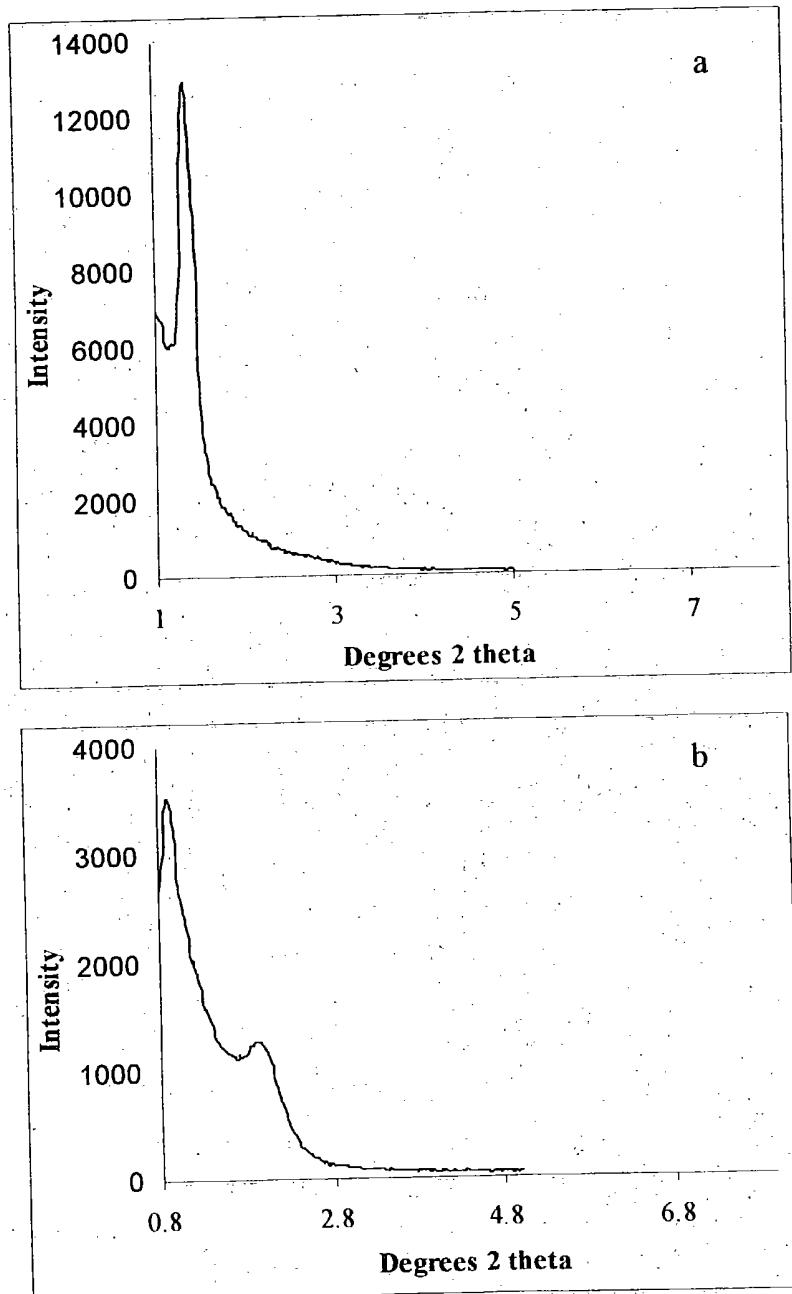


FIG. 5

Title: Electrosyn Mesoporous Molecular Sieve Fibers  
Inventor(s): Kenneth J. Balkus, Jr. et al.  
Docket No.: 46847-00021USPT

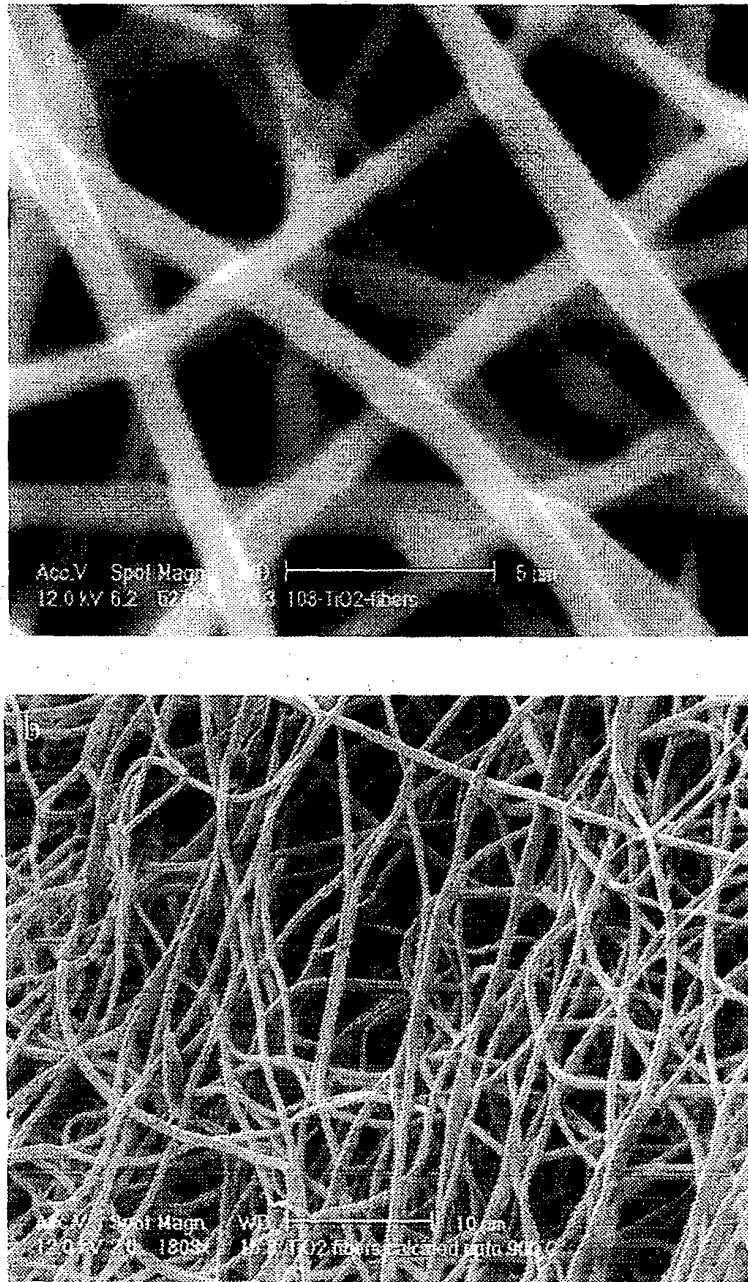


FIG. 6

Title: Electrospun Mesoporous Molecular Sieve Fibers  
Inventor(s): Kenneth J. Balkus, Jr. et al.  
Docket No.: 46847-00021USPT

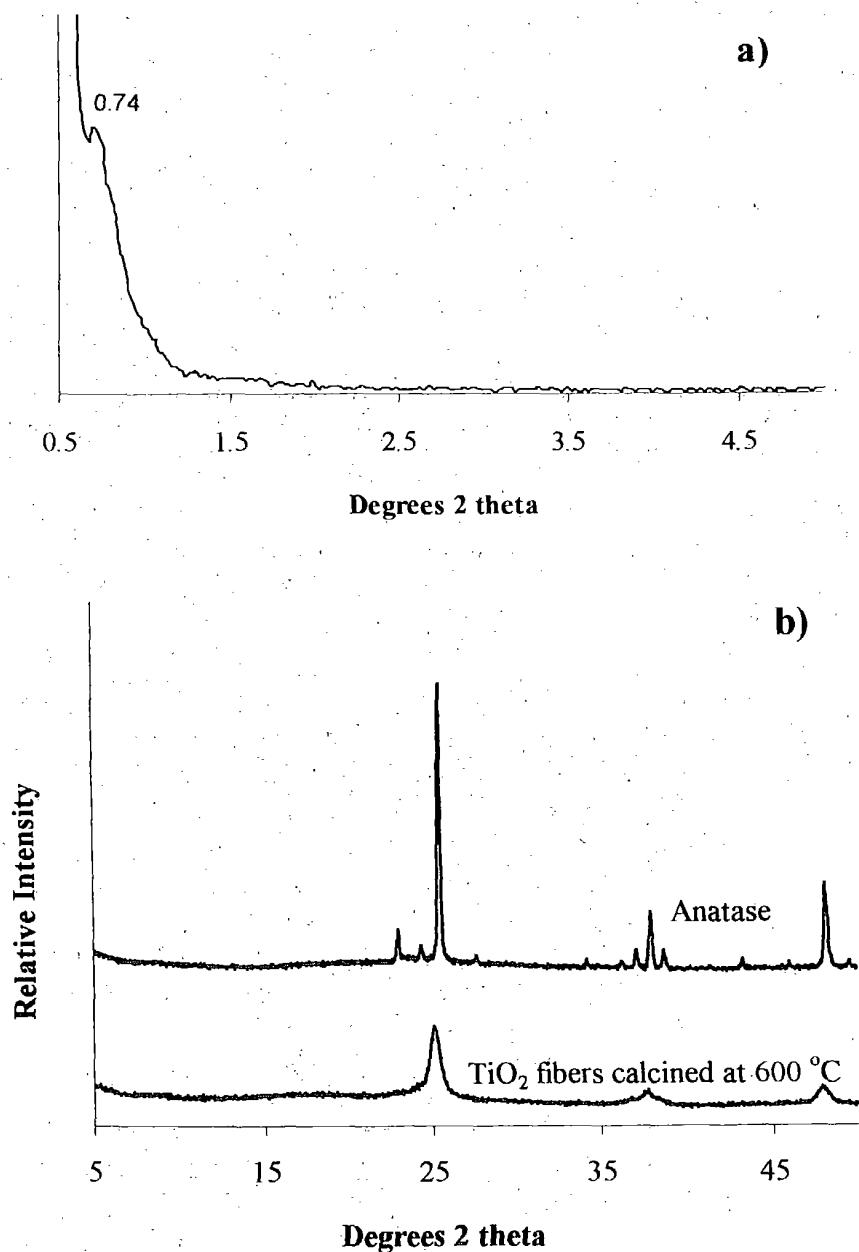


FIG. 7

Title: Electrospun Mesoporous Molecular Sieve Fibers  
Inventor(s): Kenneth J. Balkus, Jr. et al.  
Docket No.: 46847-00021USPT

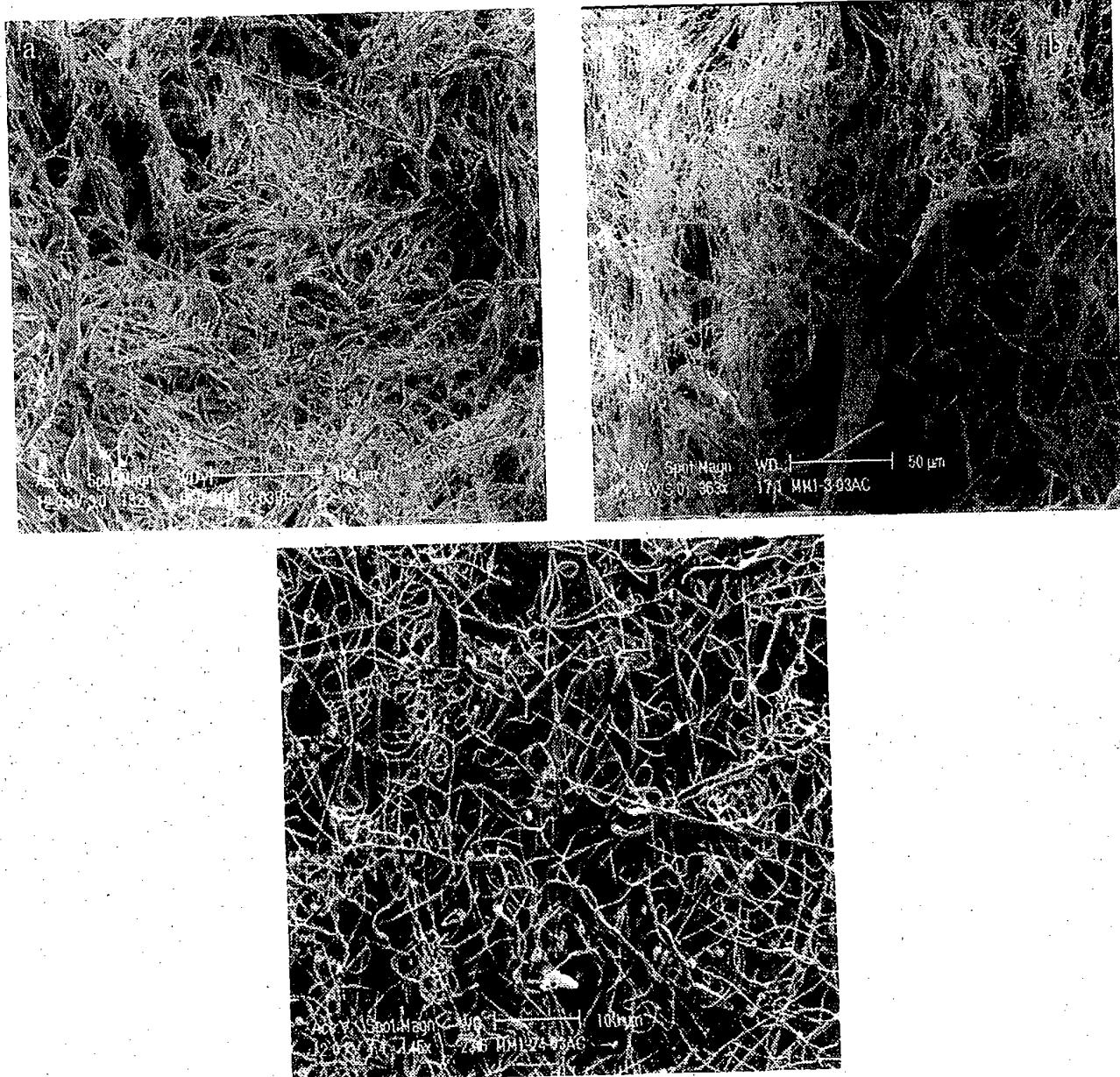


FIG. 8

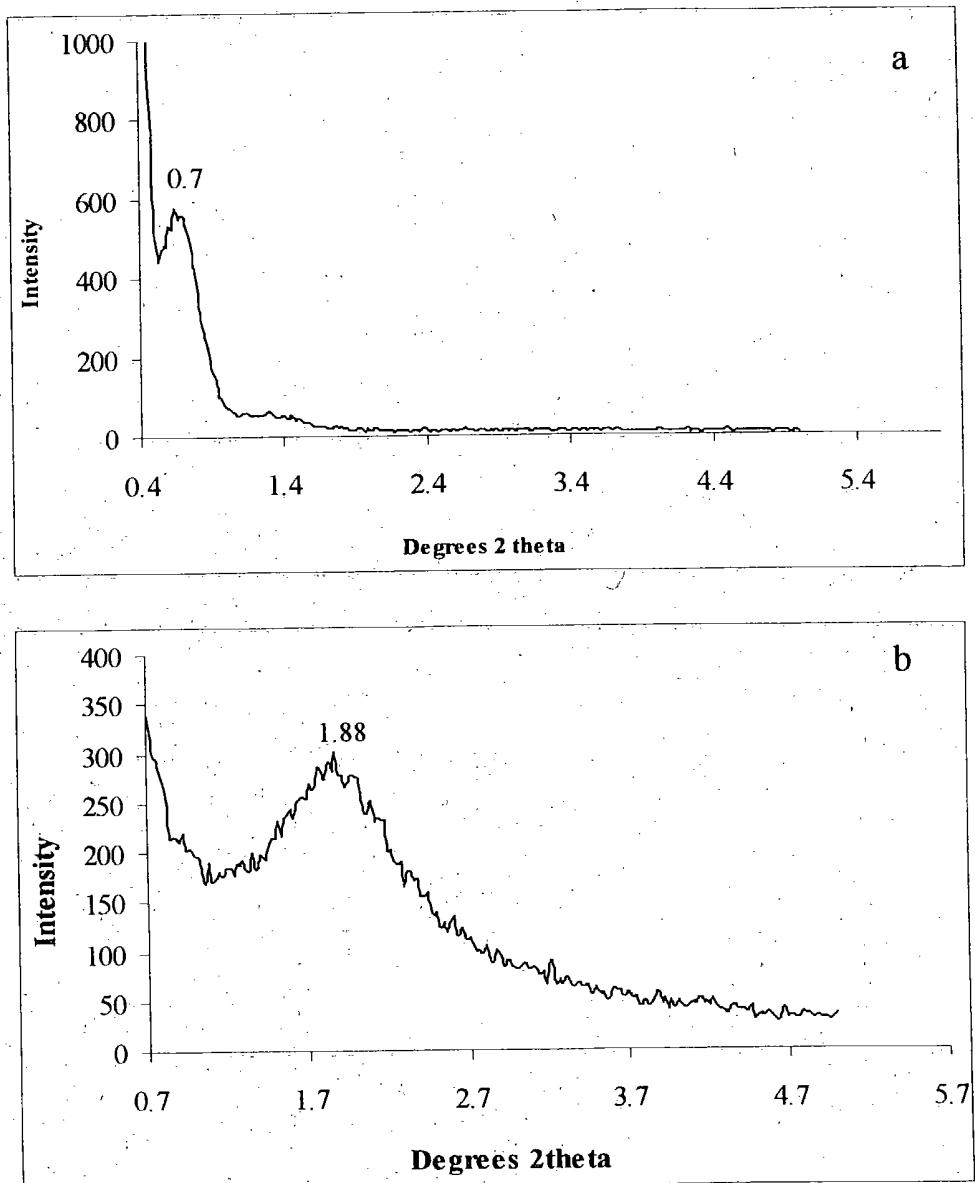


Figure 9. XRD spectra of  $Ta_2O_5$  fibers a) fibers prepared using P-123 and  $TaCl_5$  b) fibers prepared using Brij 76 and  $TaCl_5$

FIG. 9

Title: Electrospun Mesoporous Molecular Sieve Fibers  
Inventor(s): Kenneth J. Balkus, Jr. et al.  
Docket No.: 46847-00021USPT

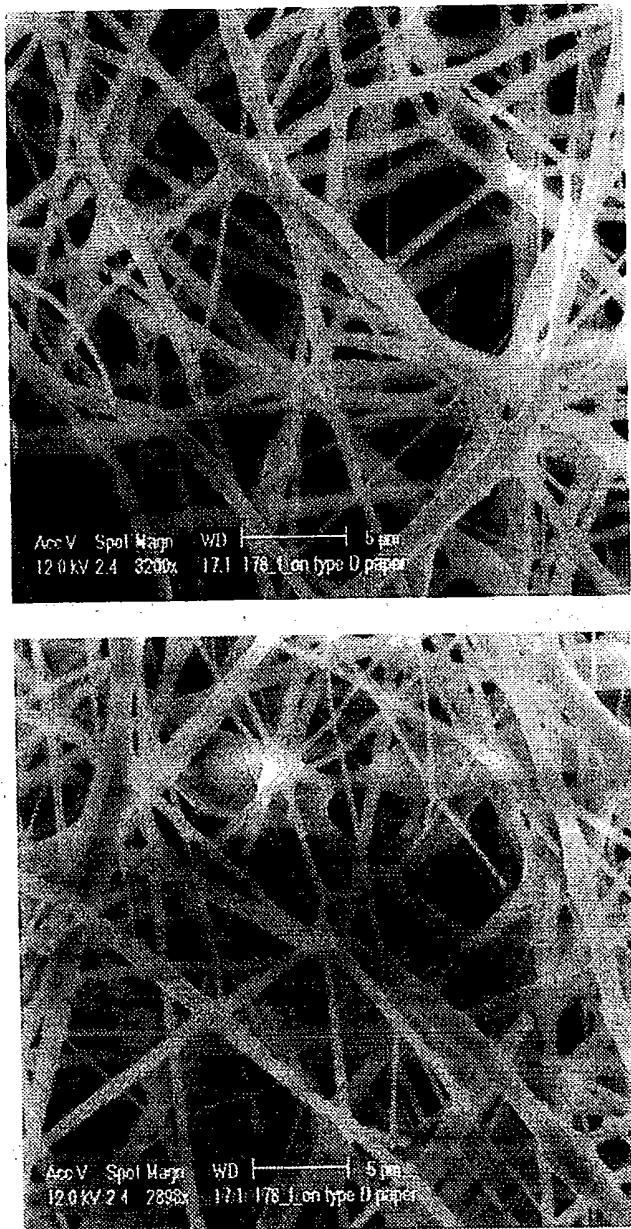


FIG. 10

Title: Electrospun Mesoporous Molecular Sieve Fibers  
Inventor(s): Kenneth J. Balkus, Jr. et al.  
Docket No.: 46847-00021USPT

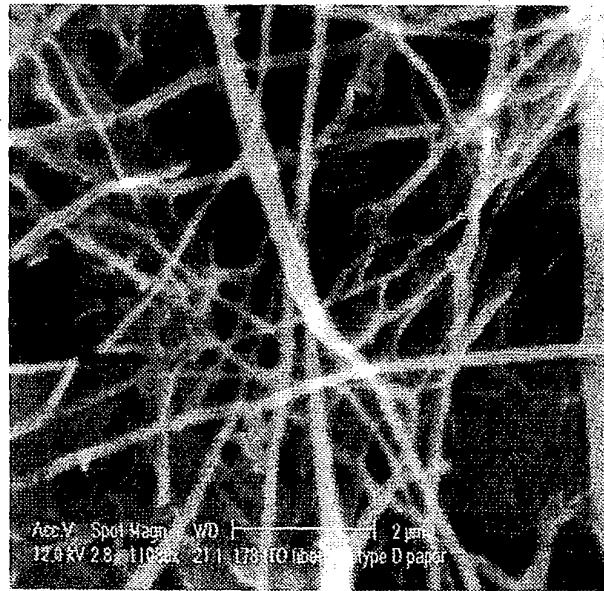
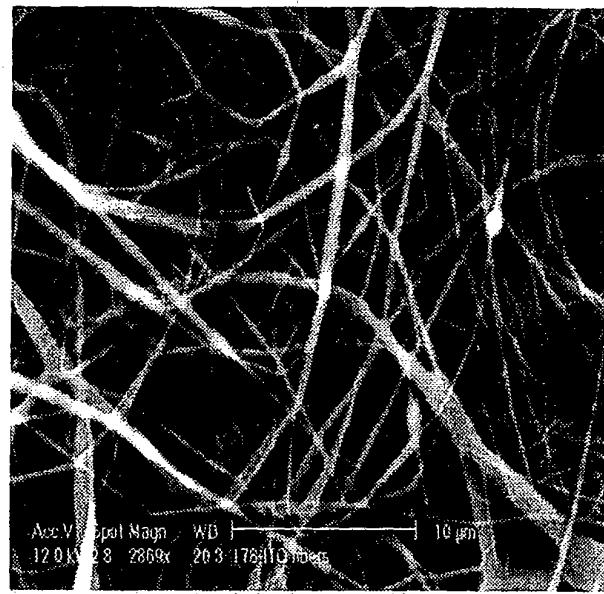


FIG. 11

Title: Electrospun Mesoporous Molecular Sieve Fibers  
Inventor(s): Kenneth J. Balkus, Jr. et al.  
Docket No.: 46847-00021USPT

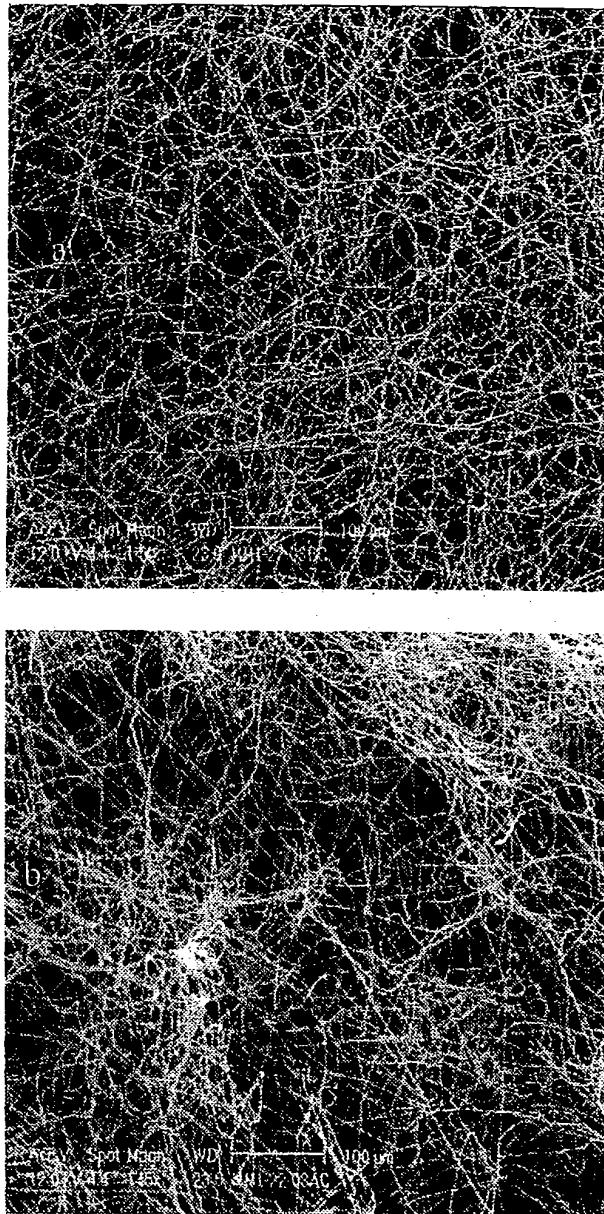


FIG. 12

Title: Electrospun Mesoporous Molecular Sieve Fibers  
Inventor(s): Kenneth J. Balkus, Jr. et al.  
Docket No.: 46847-00021USPT

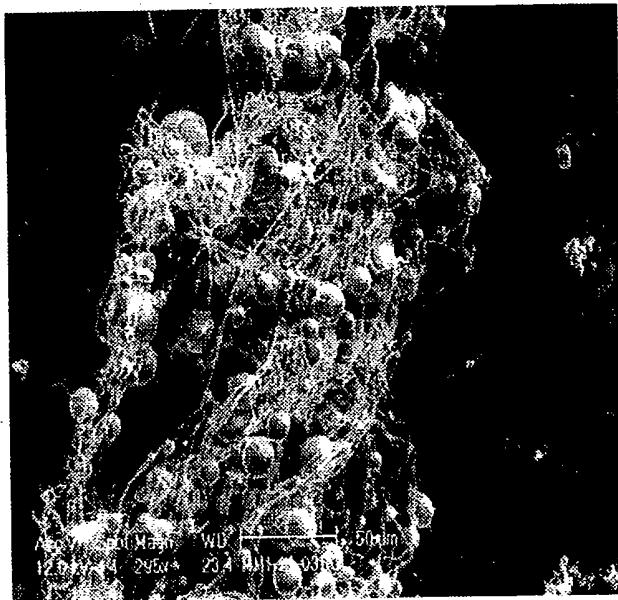


FIG. 13